S10	<b>S9</b>	S8	<b>S7</b>	95	S5	S4		S3	82	Z	Ref
<b>P</b>	o	0	0	0	ļA	361		414	67	8	Hits
("2004/0051956").URPN.	("20020114082"   "20030039276"   "20030058904"   "20040051956"   "4915484"   "5125052"   "5181224"   "5553174"   "6075650").PN. OR ("6768593").URPN.	("2002/0076174").URPN.	("2002/0085597").URPN.	("2002/0085597").URPN.	("2002/0159695").URPN.	S3 and @ad<"20030702"	(spherical or ball or round)) and ((lens or microlens or micro-lens or collimat\$3 or focus\$3) with (aspherical or concave or convex))	((coupl\$3 near2 (fiber or fibre or fiberoptic or fibreoptic or fiber-optical or fibre-optical or fibre-optical or fibre-optical or fibre-optical or fibre-optic) with laser) and ((lens or microlens or micro-lens or collimat\$3 or focus\$3) with	S1 and @ad<"20030702"	((coupl\$3 near2 (fiber or fibre or fiberoptic or fibre-optic or fiber-optical or fibre-optical or fibre-optical or fibre-optical or fibre-optical or fibre-optic) with laser) and (laser with ((vertical near2 cavity) or (surface near2 emit\$4))) and ((lens or microlens or micro-lens or collimat\$3 or focus\$3) with (spherical or ball or round)) and ((lens or microlens or micro-lens or collimat\$3 or focus\$3) with (aspherical or concave or convex))	Search Query
USPAT	US-PGPUB; USPAT; USOCR	USPAT	USPAT	USPAT	USPAT	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; USOCR;	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	DBs
유	S	Я Я	Q <sub>R</sub>	OR.	유	O <sub>R</sub>		Я	Я Я	S	Default Operator
OFF	OFF	OFF	OFF	OFF	OFF	S S		9	ON	NO	Plurals
2006/02/18 14:32	2006/02/18 14:32	2006/02/18 14:29	2006/02/18 14:29	2006/02/18 14:29	2006/02/18 14:25	2006/02/18 15:28		2006/02/18 14:22	2006/02/18 14:22	2006/02/21 11:08	Time Stamp

S18	S17	S16	S15	S14	S13	S12	S11
10	28	ы	4	13	ω	10	72
("4842391"  "4919506"   "5175783"   "5301249"   "5511140"   "5537504") PN. OR ("5638475").URPN.	("4078852"   "4111522"   "4190316"   "4307934"   "4380365"   "4475788" "4639077"   "4650285"   "4687285"   "4705351"   "4726645"   "4726648" "4781431"   "4807958"   "4830453"   "4841344"   "4842391"   "4846544") PN. OR ("4919506").URPN.	("4919506").PN. OR ("5684901").URPN.	("5701373"   "5745625").PN. OR ("6026206").URPN.	("3628294"   "3932184"   "5011254"   "5256851"   "5377287").PN. OR ("5701373").URPN.	("20020141682"   "6345138").PN. OR ("6558048").URPN.	("5832011"   "6058131"   "6233045"   "6273620"   "6310997"   "6394665" "6415078").PN. OR ("6618405").URPN.	("4168883"   "4204743"   "4265511"   "4307934"   "4355321"   "4451115' "4501637"   "4616899"   "4639077"   "4687285"   "4698662"   "4707067" "4711521"   "4733932"   "4740259"   "4752109"   "4753508"   "4758719" "4790618"   "4818053"   "4824202"   "4842391"   "4862231"   "5046798" "5050953"   "5273067"   "5074682"   "5075253"   "5175783"   "5181265" "5214845"   "5239605"   "5244818"   "5247530"   "5257336"   "5283447" "5287001"   "5291064"   "5337398"   "5347605"   "5362976"   "5416869" "5440658"   "5452389"   "5457759"   "5463707"   "5485021"   "5495545" "5500540"   "5504828"   "5521999"   "5526455"   "5537504"   "5546212" "5531992"   "5692083"   "5734771"   "5737133"   "5737465"   "5745625" "5771218"   "5940564"   "6243508"   "RE34790").PN. OR ("6741777").
). US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB;
R	Q,	S	Q <sub>R</sub>	SR	Q <sub>R</sub>	Я	OR
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2006/02/18 14:57	2006/02/18 14:57	2006/02/18:14:56	2006/02/18 14:55	2006/02/18 14:54	2006/02/18 14:49	2006/02/18 14:35	2006/02/18 14:34

S26	S25	S24	<b>S23</b>	<b>S22</b>	<b>S21</b>	S20	S19
414	535	535	592	534	8	21	16
\$25 and @ad<"20030702"	S24 not S4	\$23: not: \$222	(laser near2 (module or package)) and ((second\$3 or two) near2 (lens or microlens or micro-lens or collimat\$3 or focus\$3)) and ((ball or spherical or round) with (lens or microlens or micro-lens or collimat\$3 or focus\$3))	(S4 or S5 or S6 or S7 or S8 or S9 or S10 or S11 or S12 or S13 or S14 or S15 or S16 or S17 or S18 or S19 or S20 or S21)	("4204743"   "4265511"   "4307934"   "4451115"   "4501637"   "4687285"   "4707067"   "4711521"   "4740259"   "4752109"   "4753508"   "4790618"   "4818053"   "4824202"   "4842391"   "5073047"   "5074682"   "5175783"   "5181265"   "5247595"   "5257336"   "5337398"   "5347605"   "5452389"   "5463707"   "5504828"   "5526455"   "5537504"   "5546212"   "5566265"   "5600741"   "5737133"   "5778124"   "5835514"   "Re34790").PN. OR ("5940564").URPN.	("4687285").URPN.	("4588263"   "4611883"   "4978189"   "5073003"   "5638475"   "5771323"). PN. OR ("5911021").URPN.
US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	USPAT	US-PGPUB; USPAT; USOCR
웃	Я Я	QR	S	Я	S	웃	Q.
9	OFF	OFF	O <sub>N</sub>	OFF	OFF	OFF	OFF
2006/02/18 15:09	2006/02/18 15:08	2006/02/18 15:08	2006/02/18 15:08	2006/02/18 15:08	2006/02/18 15:06	2006/02/18 15:00	2006/02/18 14:57

S35	<b>S34</b>	S33	<b>S32</b>	S31	S30	S29	S28	S27
6	128	177	219	9	9	41	4602	21
vcsel.ab. and ((second\$3 or two) near3 (lens or micro-lens or microles or collimat\$3 or focus\$3))	S33 and :@ad<"20030702"	VCSEL.ti.	VCSELti.	("4807954"   "5015057"   "5309542"   "5696862"   "6061493"   "6071017"   "6283644").PN. OR ("6607309").URPN.	("4934787"   "5044717"   "5117472"   "5138675"   "5395362"   "5892866"   "6208678"   "6418251").PN. OR ("6674941").URPN.	vcsel.ab. and ((second\$3 or two) near3 (lens or micro-lens or microles or collimat\$3 or focus\$3))	VCSEL	("2303113"   "3652150"   "3749477"   "3751138"   "4017160"   "4203652"   "4253735"   "4318594"   "4362367"   "4530574"   "4744073"   "5095386"   "5181224"   "5467335"   "5499262"   "5844723"   "5973853"   "6088168"   "6088170").PN. OR ("6301059").URPN.
EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR
OR.	Q <sub>R</sub>	OR.	웆	OR.	R	Q.	Я	OR
OFF	NO NO	양	양	OFF	OFF	OFF	OFF	OFF
2006/02/18 15:29	2006/02/18 15:36	2006/02/18 15:26	2006/02/18 15:26	2006/02/18 15:25	2006/02/18 15:24	2006/02/18 15:29	2006/02/18 15:25	2006/02/18 15:22

S40	3	S38	837	<b>S36</b>
	0	0	Ō	19
((coupl\$3) near2 (optic\$6)) and ((second\$3 or two) near2 (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and ((ball or spher\$6 or round) with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and (aspheric\$6 with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or shap\$3))	(((coupl\$3) near2 (optic\$6)) with (system)) and ((second\$3 or two) near2 (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and ((ball or spher\$6 or round) with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and (aspheric\$6 with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3))	(((coupl\$3) near2 (optic\$6)) with (system)) and ((second\$3 or two) near2 (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and ((ball or spherical or round) with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and (aspheric\$6 with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3))	(((coupl\$3) near2 (optic\$6)) with (system)) and ((second\$3 or two) near2 (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and ((ball or spherical or round) with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and (ashperic\$6 with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3))	S33 not S34
EPO; JPO; DERWENT; IBM_TDB	EPO; JPO; DERWENT; IBM_TDB	EPO; JPO; DERWENT; IBM_TDB	EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
OR.	2	Я	Я	O <sub>R</sub>
ON	9	Q.	9	O <sub>N</sub>
2006/02/18 15:35	2006/02/18 15:35	2006/02/18 15:35	2006/02/18 15:34	2006/02/18 15:32

S48	S47 ·	S46	S45	<b>\$</b>	S43	S42	S41
ω	2	0	2	106	71	283	302
(vcsel or ((surface near2 emit\$3) with laser) or ((vertic\$5 near2 cavity) with laser)) and ((coupl\$4 near2 (fiber or fibre or fiber-optic or fibre-optic or fibre-optic or fiber-optical or fibre-optical or cable)) and ((spherical or ball) near2 (lens or microlens or micro-lens)))	(vcsel or ((surface near2 emit\$3) with laser) or ((vertic\$5 near2 cavity) with laser)) and ((coupl\$4 near2 (fiber or fibre or fiber-optic or fibre-optic or fiber-optic or fiber-optical or fibre-optical or cable)) same ((spherical or ball) near2 (lens or microlens or micro-lens)))	("2005/0123237"):URPN.	(vcsel or ((surface near2 emit\$3) with laser) or ((vertic\$5 near2 cavity) with laser)) and ((coupl\$4 near2 (fiber or fibre or fiber-optic or fibre-optic or fiber-optic or fiber-optical or fibre-optical or cable)) same ((spherical or ball) near2 (lens or microlens or micro-lens)))	(vcsel or ((surface near2 emit\$3) with laser) or ((vertic\$5 near2 cavity) with laser)) and ((coupl\$4 near2 (fiber or fibre or fiber-optic or fibre-optic or fibre-optic or fiber-optic or fiber-optical or fibre-optical or cable)) same ((spherical or ball) near2 (lens or microlens or micro-lens)))	(((second\$3 or two) near2 (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and ((ball or spher\$6) with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and (aspheric\$6 with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3))).ab.	S41 and @ad<"20030702"	((second\$3 or two) near2 (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and ((ball or spher\$6 or round) with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3)) and (aspheric\$6 with (lens or microlens or micro-lens or collimat\$3 or focus\$3 or beam-shap\$3 or beamshap\$3 or shap\$3))
EPO; JPO; DERWENT; IBM_TDB	EPO; JPO; DERWENT; IBM_TDB	USPAT	EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	EPO; JPO; DERWENT; IBM_TDB
OR.	Ş	ይ	<b>S</b>	Ş	Я	Я	Q
ON	Q N	OFF F	<u> </u>	Š	Q <sub>N</sub>	<u> </u>	Q
2006/02/18 15:55	2006/02/18 15:55	2006/02/18 15:47	2006/02/18 15:46	2006/02/18 15:55	2006/02/18 15:44	2006/02/18 15:56	2006/02/18 15:42

ON 2000/02/10 13:30	2	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	133 SOC AIR (WARK 20030/02	ţ	331
2	<u></u>	ווכ סכטו ש.	33   S50 and @ad/"30030703"	12	ر ا
9	욹	US-PGPUB; USPAT; USOCR	168   S49 not S44	160	S50
ON	O <sub>R</sub>	US-PGPUB; OR USPAT; USOCR	(vcsel or ((surface near2 emit\$3) with laser) or ((vertic\$5 near2 cavity) with laser)) and ((coupl\$4 near2 (fiber or fibre or fiber-optic or fibre-optic or fibre-optic or fibre-optical or cable)) and ((spherical or ball) near2 (lens or microlens or micro-lens)))	27.	S49

L18	L17	L16	L15	L14	<u> </u>	L12	Ē	L10	5	8	17	6	5	4	ြ	┖		Ref
108	858	И	4	ь	ယ	Ь	0	Ь	0	<b>1-4</b>	0	0		<b>–</b>	0	<b>—</b>	<b> </b>	Hits
((spherical near2 lens) with (glass)) and ((aspherical near2 lens) with plastic)	((spherical near2 lens) with (glass))	((spherical near2 lens) with (glass near4 advantage\$4))	((spherical near2 lens) with (glass near3 advantage\$4))	13 and (glass\$5 or plastic\$5)	(("6010251") or ("6568864") or ("6618405")).PN.	10 and (glass\$5 or plastic\$5)	10 and (glass\$5 or plastic\$5)	("20040247242").PN.	1 and (material)	5 and (material)	5 and (glass\$5 or plastic\$5)	5 and (glass or plastic)	("20020162338").PN.	1 and ((fiber or fibre) with (focal))	1 and (power)	1 and (glass or plastic)	("5684901").PN.	Search Query
US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	USPAT	US-PGPUB; USPAT	USPAT	US-PGPUB; USPAT	USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	USPAT	USPAT	USPAT	USPAT	DBs
OR	웆	Q <sub>R</sub>	Я	OR	Я	Я	R	Q.	웆	O <sub>R</sub>	웃	Я Я	웃	ᄋᠷ	Q	Я Я	Q <sub>R</sub>	Default Operator
ON O	9	ON	Q.	OFF	OFF	OFF	OFF	OFF	유	OFF	OFF.	OFF	OFF	OFF	OFF	OFF	OFF	Plurals
2006/02/21 14:22	2006/02/21 14:09	2006/02/21 14:09	2006/02/21 14:08	2006/02/21 14:07	2006/02/21 13:26	2006/02/21 13:26	2006/02/21 13:25	2006/02/21 13:25	2006/02/21 13:25	2006/02/21 13:24	2006/02/21 13:26	2006/02/21 13:24	2006/02/21 13:24	2006/02/21 13:24	2006/02/21 13:09	2006/02/21 14:44	2006/02/21 11:08	Time Stamp

2/21/06 4:46:59 PM C:\Documents and Settings\MConnellycushwa\My Documents\EAST\Workspaces\10612660.wsp

136	135	IJ <b>4</b>	БЗ	L32	뎐	ធូ	129	L28	127	L26	125	124	123	122	뎐	L20	רו9
	<b>L</b>	0	1	0	0	0	0	0	Þ	Д	1	J	1	0	0	29	4
33 and material	33 and mode	33 and mode	("20040247242").PN.	1 and photodiode	1 and photodetector	1 and detector	1 and window	10 and (concav\$6 or convex\$6)	10 and (glass\$ or plastic\$)	10 and (material\$)	13 and (material\$)	13 and (glass\$ or plastic\$)	1 and (glass\$ or plastic\$)	1 and (materials)	1 and (material)	((spherical near2 lens) same (glass with advantag\$6))	((spherical near2 lens) with (glass near2 advantag\$6))
US-PGPUB; USPAT	US-PGPUB; USPAT	USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT	USPAT	USPAT	USPAT	USPAT	USPAT	US-PGPUB; USPAT	US-PGPUB; USPAT
Q <sub>R</sub>	O <sub>R</sub>	웃	Q <sub>R</sub>	S	O <sub>R</sub>	Я	Q <sub>R</sub>	욹	Я	유	ᄋᄋ	윴	유	ይ	ନ	웆	OR.
OFF	OFF	양	OFF	OFF	OFF	OFF	OFF	OFF	유	OFF	OFF	OFF	OFF	OFF	OFF	9	S S
2006/02/21 16:21	2006/02/21 16:10	2006/02/21 16:07	2006/02/21 16:06	2006/02/21 16:06	2006/02/21 15:48	2006/02/21 15:47	2006/02/21 15:47	2006/02/21 15:06	2006/02/21 15:01	2006/02/21 14:47	2006/02/21 14:47	2006/02/21 14:46	2006/02/21 14:47	2006/02/21 14:46	2006/02/21 14:45	2006/02/21 14:23	2006/02/21 14:23

2006/02/21 16:33	OFF	QR	US-PGPUB; OR USPAT	1 33 and (detector\$4 or photodetector\$4 or photo\$9)		<u>ل</u> ي
US-PGPUB; OR OFF 2006/02/21 16:33 USPAT	OFF 200	OR		L38 1 33 and aspheric\$9	L38 1	138
US-PGPUB; OR OFF 2006/02/21 16:21 USPAT	OFF	Я	US-PGPUB; OR USPAT	L37 0 33 and concave		L37